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Nota di contenuto	1. Introduction to Research Area -- 2. Structure of Context Recognition in Computer-Based Systems for Transportation Management -- 3. Wireless Communication Network Infrastructure Analysis for Smart Service System Functioning -- 4. Structure of Smart Service Provision System for Operative Management of Transportation -- 5. Towards the Transport and Corresponding Sectors -- 6. Variables Important for Freight Delivery and Context Data Usage -- 7. Automated Freight Brokerage Based on Multi-Agent Semantic Web Service Composition -- 8. Transport Network Design Methods and Context-Aware Service Specifics -- 9. Context-Aware Service Support Efficiency Improvement

in the Transport System -- 10. Cargo Delivery Management Process: Risks, Solutions, and Optimization -- 11. Cargo Delivery Management Process: Risks, Solutions, and Optimization -- 12. The Concept Towards Transportation Infrastructure and Its Capacity -- 13. Information Systems in Freight Transportation -- 14. Information Technology Used in the Road Transport Sector -- 15. Information Technology Used in the Railway Transport Sector -- 16. Information Technology Used in the Water Transport Sector -- 17. Information Systems in Transport and Forwarding Activities -- 18. Information Technology Used in Intermodal and Multimodal Transport -- 19. Development of Intelligent Service System for Multimodal Transport Management.

Sommario/riassunto

With a focus on cargo transportation, this book addresses the development of approaches intended to secure an infrastructure of smart services to support the adaptive implementation of online multimodal freight transport management processes. It discusses the development of multi-criteria decision-making components and their integration into the multi-layered computer-based information management of intelligent systems. Through detailed descriptions of various components of intelligent transport management systems, the book demonstrates how to develop the services needed in the right place and at the right time, and how to properly adapt to user needs, making necessary interventions to ensure the safety of the transportation process. Further, it describes the main ways to increase the autonomy and efficiency of user-vehicle interaction and shows how Information and Communications Technology (ICT) structural support for current and past situations in AI-based systems can help to anticipate future developments in freight transportation.